

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

| | | | |
|--|--|---|--|
| (51) International Patent Classification ⁷ : C12Q 1/68 | | A2 | (11) International Publication Number: WO 00/42216 (43) International Publication Date: 20 July 2000 (20.07.00) |
| (21) International Application Number: PCT/EP00/00319 | | (81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). | |
| (22) International Filing Date: 17 January 2000 (17.01.00) | | (30) Priority Data: 9901037.3 18 January 1999 (18.01.99) GB 9912585.8 28 May 1999 (28.05.99) GB | |
| (71) Applicant (<i>for all designated States except US</i>): OSTEOMETER BIOTECH A/S [DK/DK]; OsteoPark, Herlev Hovedgade 207, DK-2730 Herlev (DK). | | (72) Inventor; and (75) Inventor/Applicant (<i>for US only</i>): KUSK, Philip [DK/DK]; OsteoPark, Herlev Hovedgade 207, DK-2730 Herlev (DK). | |
| (74) Agent: SMART, Peter, J.; W.H. Beck, Greener & Co., 7 Stone Buildings, Lincoln's Inn, London WC2A 3SZ (GB). | | Published <i>Without international search report and to be republished upon receipt of that report.</i> | |

(54) Title: GENETIC PREDISPOSITION

(57) Abstract

Methods of assessing an individual's predisposition to abnormal calcification conditions such as osteoporosis by determining the genotype of a promoter for the bone sialoprotein gene, the matrix gla protein gene, the osteopontin gene or the osteoprotegerin gene individually or in any combination. Specific allelic variations for each promoter are described.